## INTERNATIONAL SEARCH REPORT

intermental Application No PCT/IB2004/052778

a. classification of subject matter IPC 7 H01L27/146 H01L27/15 H01L21/329 H01L21/336 H01L21/84 G09G3/32 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) H01L G09G IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 4 862 237 A (MOROZUMI ET AL) 1,2,5,6, 29 August 1989 (1989-08-29) 10,11 column 5, line 1 - column 7, line 15 column 6, line 15 - line 18 column 6, line 29 - line 30 column 6, line 38 - line 41 figure 5 figure 14 X US 5 262 649 A (ANTONUK ET AL) 1,5,11 16 November 1993 (1993-11-16) column 7, line 55 - column 9, line 39 column 8, line 13 - line 16 figure 1 -/--X X Further documents are listed in the continuation of box C. Patent family members are listed in annex. \* Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 14 June 2005 23/06/2005 Name and mailing address of the ISA **Authorized officer** European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 Bernabé Prieto, A

## **INTERNATIONAL SEARCH REPORT**

Intermational Application No PCT/IB2004/052778

	PCT/IB2004/05277								
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT									
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.							
х	EP 0 634 800 A (PHILIPS ELECTRONICS UK LIMITED; PHILIPS ELECTRONICS N.V) 18 January 1995 (1995-01-18) column 6, line 46 - column 12, line 19 figure 1	1,5,11							
A	US 2001/052597 A1 (YOUNG NIGEL D ET AL) 20 December 2001 (2001-12-20) the whole document figures 2-4	1-11							
A	US 5 589 694 A (TAKAYAMA ET AL) 31 December 1996 (1996-12-31) the whole document	1-11							

## INTERNATIONAL SEARCH REPORT

Information on patent family members

InterNational Application No PCT/IB2004/052778

	atent document d in search report		Publication date		Patent family member(s)	Publication date
US	4862237	A	29-08-1989	JP	59126666 A	21-07-1984
	4002237	^	E3 00 1303	JP	60064467 A	13-04-1985
				ĴΡ	3135524 A	10-06-1991
				ĴΡ	3135525 A	10-06-1991
US	5262649	Α	16-11-1993	US	5079426 A	07-01-1992
				AT	191977 T	15-05-2000
				CA	2127453 A1	22-07-1993
				DE	69328447 D1	25-05-2000
				DE	69328447 T2	21-12-2000
				EP	0724729 A1	07-08-1996
				JP	7502865 T	23-03-1995
	•			WO	9314418 A1	22-07-1993
				CA	2065246 A1	07-03-1991
				EP	1167999 A1	02-01-2002
				EP	0490997 A1	24-06-1992
				JP	3050402 B2	12-06-2000
				JP	5503770 T	17-06-1993
				WO	9103745 A1	21-03-1991
EP	0634800	Α	18-01-1995	DΕ	69401685 D1	20-03-1997
				DE	69401685 T2	24-07-1997
				EP	0634800 A1	18-01-1995
				JP	7078954 A	20-03-1995
				US	5451766 A	19-09-1995
US	2001052597	A1	20-12-2001	WO	0199191 A1	27-12-2001
•	2001002037			ËΡ	1222691 A1	17-07-2002
				JΡ	2003536115 T	02-12-2003
	EE90604	 A	21.12 1006	JP	3347803 B2	20-11-2002
US	5589694	A	31-12-1996	JP	6275805 A	30-09-1994
				JP JP	3347804 B2	20-11-2002
				JP	6275806 A	30-09-1994
				JP	3402380 B2	06-05-2003
				JP	6275807 A	30-09-1994
				JP	3329512 B2	30-09-2002
				JP	6275808 A	30-09-1994
				JP	3403994 B2	06-05-2003
				JP	2000299454 A	24-10-2000
				US	5501989 A	26-03-1996
				US	5744822 A	28-04-1998
				JP	3405955 B2	12-05-2003
				175	J443333 DE	エケーハコーだいいつ